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Published on SBIR.gov (<https://www.sbir.gov>)

[1. c: One Micrometer Resolution Structured Scintillators for Hard X-ray Image Detection](#)

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

High energy (roughly 30-90 keV) x-rays at synchrotron light sources provide unique information on polycrystallinity and failure modes in lightweight structural materials for advanced transportation applications [1], and on the details of atom bonding in crystalline materials being developed for improved catalytic [2] and energy storage applications [3]. These applications require large area detec ...

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[2. d: Other](#)

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

In addition to the specific subtopics listed above, the Department invites grant applications in other areas that fall within the scope of the topic description above.

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[3. 4: OPTICS DEVICES FOR LIGHT SOURCE FACILITIES](#)

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

The Office of Basic Energy Sciences, within the DOE's Office of Science, is responsible for current and future synchrotron radiation light sources, free electron lasers, and spallation neutron source user facilities. This topic seeks the development of X-ray optics devices to support the light source user facilities.

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[4. b: Direct Write Optical Lithography for Fabrication of X-Ray Gratings](#)

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

Gratings are essential components of synchrotron radiation beamline systems and are used in both monochromators and spectrographs covering the photon energy range up to ~ 3 keV. While traditional ruling machines and holographic recording can provide many of the characteristics required, new lithographic methods based on direct optical writing have the potential to revolutionize grating production ...

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[5. c: Integration of Advanced Metrology into X-Ray Mirror Manufacturing](#)

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

Mirrors are an essential component of all synchrotron and Free Electron Laser (FEL) x-ray beamlines. Current and future projected advances in x-ray source performance have led to an enormous increase in source brightness that is in turn driving mirror figure and finish tolerances to significantly lower values than achievable today. The ability of a manufacturer to make a mirror is fundamentally ...

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6. [d: Other](#)

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

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7. [5: INSTRUMENTATION FOR ELECTRON MICROSCOPY AND SCANNING PROBE MICROSCOPY](#)

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

The Department of Energy supports research and facilities in electron and scanning probe microscopy for the characterization of materials. Performance improvements for environmentally acceptable energy generation, transmission, storage, and conversion technologies depend on a detailed understanding of the structural and property characteristics of advanced materials. The enabling feature of nanosc ...

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8. [b: Scanning Probe Microscopy \(SPM\)](#)

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

Scanning probe microscopy is vital to the advancement of nanoscale and energy science, and is used in numerous materials research projects and facilities funded by the Department. Grant applications are sought to develop: New generations of SPM platforms capable of operation in the functional gas atmospheres and broad temperature-pressure ranges, functional SPM probes, sample holders-cells (incl ...

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9. [c: Other](#)

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

In addition to the specific subtopics listed above, the Department invites grant applications in other areas that fall within the scope of the topic description above.

SBIR Department of Energy

10. [6: INSTRUMENTATION AND TOOLS FOR MATERIALS RESEARCH USING NEUTRON SCATTERING](#)

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

As a unique and increasingly utilized research tool, neutron scattering makes invaluable contributions to the physical, chemical, and nanostructured materials sciences. The Department of Energy supports neutron scattering and spectroscopy facilities at neutron sources where users conduct state-of-the-art materials research. Their experiments are enabled by the convergence of a range of instrumen ...

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